The ADTRAN® Total Access 5000 System Control Module (SCM) Bridging facilitates flexible, economical management while supporting both local and remote provisioning. The card is hot-swappable and provides console access and alarm contact closures.

The SCM Bridging provides for remote management through SNMP and TL1. TL1 and SNMP access are provided as in-band IP over Ethernet. Additionally, SNMP and TL are both supported out-of-band through one of two 10/100Bt Ethernet connections on the front of the card. Telnet remote console access is also provided. The front panel Ethernet-2 interface supports a configurable DHCP server that provides a DHCP pool to connected systems. This will allow users to automatically connect to the System Controller Module and manage the system through the Web-based Graphical User Interface (GUI) or Command Line Interface (CLI).

The Ethernet interfaces support Auto-MDX configuration for 10Base-T and 100/Base-T operation. Only one Ethernet port can be utilized with the DHCP server at given time.

The SCM Bridging provides the capability to establish an Ethernet bridge between one of the 10/100 Base-T Ethernet ports and the in-band network interface. This capability provides operators with the option to connect the Central Office (CO) Total Access 5000 System Controller to their CO LAN while maintaining a dedicated in-band management Virtual LAN (VLAN) for their remote terminal Total Access 5000 systems.

The SCM Bridging supports a wide range of security options for local and remote authentication. A maximum of 15 local accounts are supported with password aging, account expiration, complex password, and invalid login support. For remote authentication, the SCM Bridging supports Remote Authentication Dial-In User Service (RADIUS) and Terminal Access Controller Access-Control System Plus (TACACS+). The system supports the ability to choose which authentication method has priority as well as the ability to choose the fallback method of authentication should one or more login operations fail.

The SCM Bridging is the central point for firmware upgrades through the use of Auto Upgrade and System Controlled Reboot (SCR). Auto Upgrade provides a way for customers to easily manage system releases across large or small networks. Auto Upgrade is supported through local configuration and management or through the Total Access EMS. SCR provides enhanced control of the Auto Upgrade process such that the entire system will have a coordinated reboot to the new system release. SCR minimizes network downtime and also allows network administrators to prepare a system for upgrade during normal business hours while staging the system reboot during their maintenance window.

For the SCM Bridging, one front access 10/100Bt Ethernet interface is provided in addition to the local RS-232 DB-9 console port (CRAFT) as well as two rear DB-9 console ports (ADMIN and Network Management) for local connectivity. The rear SMIO3 module provides connections for the 16 external alarm inputs as well as critical, major, and minor audible and visual alarms contact closures.

Additionally, the SCM Bridging maintains a copy of the provisioning for each module in the shelf. In the event of a module exchange, the previous provisioning information will be restored if the new module is the same type. The SCM Bridging supports multiple file transfer methods including TFTP, FTP, File Transfer over TL1 (FTOT®), and Secure FTP.
Product Specifications

**Mechanical**

- **Dimensions**
  - Height: 9.25 inches
  - Width: 0.8 inches
  - Depth: 9.5 inches
- **Weight**
  - 0.65 lbs/272.155 g

**Interfaces**

- **Craft**: DB-9 RS-232 Electrical Interface
- **ADMIN**: DB-9 RS-232 DTE Electrical Interface
- **Network Management Port**: DB-9 RS-232 DTE Electrical Interface
- **Ethernet 10/100Base-T interface (REAR)**
- **Ethernet-2 10/100Base-T interface (FRONT)**
- **CR/MJ/MN Audible and Visual Alarm relay contact closures**
- **16 External Alarm inputs**

**Management**

- Remote management through SNMP, TL1, Telnet, SSH, Web GUI, and CLI
- Ethernet interfaces(s) for SNMP, TL1, Telnet, SSH, Web GUI, and CLI
- Local Craft, ADMIN, and NTWK management ports

**Environmental**

- **Operating Temperature**: -40°C to +65°C
- **Storage Temperature**: -40°C to +80°C
- **Relative Humidity**: Up to 95%, non-condensing

**Ordering Information**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Part #</th>
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<tbody>
<tr>
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